

QUERY CONTROL FORM

PA-IDC

RTIS USE ONLY

Application No. 100 23465
Examiner-GAU Kreck-3673

Prepared by PAP
Date 9/1/04
No. of queries 1

Tracking Number 059 86656
Week Date 7/26/04
IFW

JACKET

| | | | |
|----------------------|------------------------|--------------------|----------------|
| a. Serial No. | f. Foreign Priority | k. Print Claim(s) | ⑥ PTO-1449 |
| b. Applicant(s) | g. Disclaimer | l. Print Fig. | q. PTOL-85b |
| c. Continuing Data | h. Microfiche Appendix | m. Searched Column | r. Abstract |
| d. PCT | i. Title | n. PTO-270/328 | s. Sheets/Figs |
| e. Domestic Priority | j. Claims Allowed | o. PTO-892 | t. Other |

SPECIFICATION

a. Page Missing
b. Text Continuity
c. Holes through Data
d. Other Missing Text
e. Illegible Text
f. Duplicate Text
g. Brief Description
h. Sequence Listing
i. Appendix
j. Amendments
k. Other

MESSAGE PTO-1449 dated 7-2-03: Please
advise if references should be printed.
If so please either initial or line
through citation(s). Copies provided for
reference.

CLAIMS

a. Claim(s) Missing
b. Improper Dependency
c. Duplicate Numbers
d. Incorrect Numbering
e. Index Disagrees
f. Punctuation
g. Amendments
h. Bracketing
i. Missing Text
j. Duplicate Text
k. Other

Thank you

initials PAP

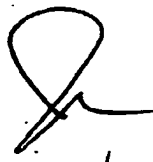
RESPONSE

initials

PART OF PAPER #3
Patent References Submitted by William L. Lundy to John G. Premo, Esq.
Re: In-Situ Subsurface Decontamination Method (From Provisional 60/256,534)

| | | | |
|-----------|---------|-------------------|---------|
| 4,294,703 | 10/1981 | Wilms et al. | 210/631 |
| 4,321,143 | 3/1982 | Wilms et al. | 210/631 |
| 4,370,241 | 1/1983 | Junkermann et al. | 210/759 |
| 4,591,443 | 5/1986 | Brown et al. | 210/747 |
| 4,604,214 | 8/1986 | Carr et al. | 210/759 |
| 4,724,084 | 2/1988 | Pahmeier et al. | 210/709 |
| 4,804,480 | 2/1989 | Jayawant | 210/759 |
| 5,043,080 | 8/1991 | Cater et al. | 210/748 |
| 5,264,018 | 11/1993 | Koenigsberg | 71/63 |
| 5,266,214 | 11/1993 | Safarzedeh-Amiri | 210/748 |
| 5,286,141 | 2/1994 | Vigneri | 405/128 |
| 5,395,419 | 3/1995 | Farone | 71/63 |
| 5,520,483 | 5/1996 | Vigneri | 405/128 |
| 5,525,008 | 6/1996 | Wilson | 405/128 |
| 5,611,642 | 3/1997 | Wilson | 405/128 |
| 5,610,065 | 3/1997 | Kelly et al. | 435/264 |
| 5,741,427 | 4/1998 | Watts et al. | 210/747 |
| 5,955,350 | 9/1999 | Soni et al. | 435/264 |
| 5,967,230 | 10/1999 | Cooper et al. | 166/245 |
| 6,268,205 | 7/2001 | Kiest, et al. | 301/087 |

all confidential



6/27/03

**Publication References Submitted by William L. Lundy to John G. Premo, Esq.
Re: In-Situ Subsurface Decontamination Method (From Provisional 60/256,534**

- Barbeni et al.; "Chemical Degradation of Chlorophenols with Fenton's Reagent"; Chemosphere, vol. 16, pp. 2225-2237, 1987
- Bowers et al.; "Treatment of Toxic or Refractory Wastewaters with Hydrogen Peroxide"; Water Science & Technology, vol. 21, pp. 477-486, 1989
- Brown et al.; "Competition between chelating agents and roots as factors affecting absorption of iron and other ions by plant species;" Plant Physiology, vol. 35, pp.878-886, 1960
- Gates et al.; "In Situ Chemical Oxidation of Trichloroethylene Using Hydrogen Peroxide"; Journal of Environmental Engineering, vol. 121, pp. 639-644, 1995
- Halvorson et al.; "Equilibrium Relationships of Metal Chelates in Hydroponic Solutions"; Soil Science Society America Journal; vol. 36, pp.755-761, 1972
- Hill et al.; "Rates of Solution of Limestone Using the Chelating Properties of Versene (EDTA) Compounds"; Kansas State Geological Survey, Bulletin No. 165, Part 7, 1963
- Hill et al.; "Solubility of Twenty Minerals in Selected Versene (EDTA) Solutions"; Kansas State Geological Survey, Bulletin No. 175, Part 3, 1965
- Kim et al.; "Enhancing Biological Treatability of Landfill Leachate by Chemical Oxidation"; Environmental Engineering Science, vol. 14, pp. 73-79, 1997
- Lindsay et al.; "Development of a DTPA Soil Test for Zn, Fe, Mn and Cu"; Soil Science Society America Journal; vol. 42, pp.421-428, 1978
- Lindsay; "Chemical Equilibria in Soils"; chap. 15, 449 p., John Wiley & Sons, 1979
- Lipczynska-Kochany et al.; "Influence of some Groundwater and Surface Water Constituents on the Degradation of 4-Chlorophenol by the Fenton Reaction"; Chemosphere, vol. 30, pp. 9-20, 1995
- Norvell et al. "Reactions of EDTA Complexes of Fe, Zn, Mn and Cu with Soils"; Soil Science Society America Proceedings, vol. 33, pp. 86-91, 1969
- Norvell et al.; "Reactions of DTPA Chelates of Fe, Zn, Cu and Mn with Soils"; Soil Science Society America Proceedings, vol. 36, pp. 778-783, 1972
- Pignatello et al.; "Ferric Complexes as Catalysts for "Fenton" Degradation of 2,4-D and Metolachlor in Soil"; Journal of Environmental Quality, vol. 23, pp.365-370, 1994
- Pradhan et al.; "Pilot-Scale Bioremediation of PAH-Contaminated Soils"; Applied Biochemistry and Biotechnology, vol. 63-65, pp. 759-773, 1997
- Ravikumar et al.; "Chemical Oxidation of Chlorinated Organics by Hydrogen Peroxide in the Presence of Sand"; Environmental Science & Technology, vol. 28, 394-400, 1994

all considered



6/27/03

- Rush et al.; "The Reaction between Ferrous Polyaminocarboxylate Complexes and Hydrogen Peroxide: An Investigation of the Reaction Intermediates by Stopped Flow Spectrophotometry"; *Journal of Inorganic Biochemistry*, vol. 29, pp. 199-215; 1987
- Rush et al.; "Distinction between Hydroxyl Radical and Ferryl Species"; *Methods in Enzymology*, vol. 86, pp. 148-156, 1990
- Schirmann et al.; "Hydrogen Peroxide in Organic Chemistry"; chap. 5, 211 p., Edition Et Documentation Industrielle, 1979
- Schumb et al.; "Hydrogen Peroxide"; chaps 8 & 9, 759 p., American Chemical Society Monograph Series, 1955
- Sedlak et al.; "Oxidation of Chlorobenzene with Fenton's Reagent"; *Environmental Science & Technology*, vol. 25, pp. 777-782, 1991
- Sparks; "Soil Physical Chemistry"; chap. 4, 409 p., CRC Press, 1999
- Sposito; "The Chemistry of Soils"; chaps. 4 & 5, 277 p., Oxford University Press, 1989
- Stumm et al.; "Aquatic Chemistry, An Introduction Emphasizing Chemical Equilibria in Natural Waters"; Chap. 6, 583 p., John Wiley & Sons, 1970
- Stumm et al.; "Aquatic Chemistry, Chemical Equilibria and Rates in Natural Waters"; chap. 7, 1022 p., John Wiley & Sons, 1996
- Tyre et al.; "Treatment of Four Biorefractory Contaminants in Soils Using Catalyzed Hydrogen Peroxide"; *Journal of Environmental Quality*, vol. 20, pp. 832-838, 1991
- Voelker et al.; "Effects of Fulvic Acid on Fe(II) Oxidation by Hydrogen Peroxide"; *Environmental Science & Technology*, vol. 30, pp. 1106-1114, 1996
- Waite et al.; "Kinetics and Stoichiometry of Oxygen Release from Solid Peroxides"; *Environmental Engineering Science*, vol. 16, pp. 187-199, 1999
- Walling; "Fenton's Reagent Revisited"; *Accounts of Chemical Research*, vol. 8, pp. 125-131, 1975
- Walling et al.; "Fenton's Reagent. V. Hydroxylation and Side-Chain Cleavage of Aromatics"; *Journal of the American Chemical Society*, vol. 97, pp. 363-367, 1975
- Walling et al.; "The Oxidation of Mandelic Acid by Fenton's Reagent"; *Journal of the American Chemical Society*, vol. 104, pp. 1185-1189, 1982
- Watts et al.; "Treatment of Pentachlorophenol Contaminated Soils using Fenton's Reagent"; *Hazardous Waste Hazardous Materials*, vol. 7, pp. 335-345, 1990
- Watts et al.; "Treatment of Octachlorodibenzo-p-dioxin (OCDD) in Surface Soils Using Catalyzed Hydrogen Peroxide"; *Chemosphere*, vol. 23, pp. 949-956, 1991
- Watts et al.; "Hydrogen Peroxide for Physico-Chemically Degrading Petroleum-Contaminated Soils"; *Remediation*, vol. 2, pp. 413-425, 1992

all considered



6/27/03